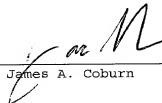


Serial No. 09/867,753

States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,

Aug. 20, 2001
Date


James A. Coburn

HARBOR CONSULTING
Intellectual Property Services
1500A Lafayette Road
Suite 262
Portsmouth, N.H.
800-318-3021

09867753-082401

Example

The expression of the human PEM in various brain tissues was analyzed by semi-quantitative PCR. To this end, the following primers were used:

Sense 5'-ATGGCGCGTTCGCTCGTCCACGAC-3', (SEQ ID NO 4)

Antisense 5'-TAGTCCACGACGATGTAGACACAG-3'. (SEQ ID NO 5)

In the control, specific primers for beta-actin were used:

Sense primer 5'-CTAGAAGCATTTGCGGTGGACGATGGAGGG-3', (SEQ ID NO 6)

Antisense primer 5'-CTAGAAGCATTTGCGGTGGACGATGGAGGG-3'. (SEQ ID NO 6)

The cDNA was acquired by Invitrogen (Carlsbad, CA, USA).

The PCR analysis was performed with the Advantage-2 PCR kit (Clontech). The reaction conditions were as follows: initially 5 minutes at 95°C; then 30 cycles with 95°C for 30 seconds, 62°C for 30 seconds and 72°C for 1 minute; finally 72°C for 7 minutes. The results show an elevated expression of human PEM in the frontal and temporal lobes in Alzheimer patients in comparison to healthy tissue.